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Serial No. 10/750,934 Docket No. 0101.00

Claims:

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The following listing of claims will replace all prior versions and listings of claims in the application:

1 - 22. (Cancel)

- 23. (Withdrawn) A method of making a pharmaceutical formulation for pulmonary administration, the method comprising: suspending active agent particles and a hydrophobic material in a liquid feedstock, wherein at least 90% of the active agent particles have a geometric diameter less than 3 µm; and spray drying the feedstock suspension to produce particulates comprising an active agent particle at least partially in the hydrophobic material.
- 24. (Withdrawn) A method according to claim 23 wherein the feedstock comprises water and wherein the active agent has a solubility in water of less than 1.0 mg/ml.
- 25. (Withdrawn) A method according to claim 23 further comprising collecting the particulates.
- 26. (Withdrawn) A method according to claim 25 wherein the collected particulates have a mass median diameter less than 20 µm.
- 27. (Withdrawn) A method according to claim 25 wherein the collected particulates have a mass median diameter less than 10 µm.
- 28. (Withdrawn) A method according to claim 23 wherein 95% of the active agent particles have a geometric diameter less than 3 µm.
- 29. (Withdrawn) A method according to claim 23 wherein the hydrophobic material comprises a lipid.

- 30. (Withdrawn) A method according to claim 23 wherein the hydrophobic material comprises a phospholipid.
- 31. (Withdrawn) A method according to claim 23 wherein the hydrophobic material comprises a hydrophobic amino acid.
- 32. (Withdrawn) A method according to claim 23 further comprising adding an emulsifying agent to the feedstock.
- 33. (Withdrawn) A method according to claim 23 wherein the emulsifying agent comprises distearoyl phosphatidylcholine.
- 34. (Withdrawn) A method according to claim 23 further comprising adding a blowing agent to the feedstock.
- 35. (Withdrawn) A method according to claim 23 further comprising adding a polyvalent cation to the feedstock.
- 36. (Withdrawn) A method according to claim 23 wherein the feedstock is spray dried in a manner to produce particulates having a bulk density of less than 0.5 g/cm³.
- 37. (Withdrawn) A pharmaceutical formulation prepared by a method according to claim 23.
- 38. (Currently Amended) A pharmaceutical formulation for pulmonary administration, the pharmaceutical formulation comprising:

porous particulates consisting essentially of active agent particles in a matrix comprising a phospholipid, the active agent particles having a geometric diameter of less than about 3 µm and a solubility in water of less than about 0.1 to about 1.0 mg/ml and wherein the active agent particles are dispersed throughout within the phospholipid matrix; and

wherein at least 90% of the active agent particles have a geometric diameter less than 3 μm and wherein the particulates are hollow and/or porous, and have a mass median diameter less than 20 μm, a bulk density of less than about 0.5 g/cm³ and a mass median aerodynamic diameter less than about 2.6 μm.

- 39. (Previously Presented) A pharmaceutical formulation according to claim 38 wherein the formulation provides for the delivery to the lung of a dose of at least about 5 mg in a single inhalation.
- 40. (Cancel)
- 41. (Previously Presented) A pharmaceutical formulation according to claim 38 wherein a formulation fine particle fraction of less than 3.3 µm is at least about 72 percent.
- 42. (Previously Presented) A pharmaceutical formulation according to claim 38 wherein the formulation provides for the delivery to the lung of a dose of at least about 5 mg in a single inhalation.
- 43. (Cancelled).
- 44. (Previously Presented) A pharmaceutical formulation according to claim 38 wherein the matrix comprises one or more of dipalmitoylphosphatidylcholine, distearcylphosphatidylcholine, diarachidoylphosphatidylcholine dibehenoylphosphatidylcholine, diphosphatidyl glycerol, short-chain phosphatidylcholines, long-chain saturated phosphatidylethanolamines, long-chain saturated phosphatidylserines, long-chain saturated phosphatidylglycerols, and long-chain saturated phosphatidylinositols.

45-46. (Cancelled)

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- 47. (Original) A pharmaceutical formulation according to claim 38 wherein the particulates have a bulk density less than 0.3 g/cm³.
- 48. (Original) A pharmaceutical formulation according to claim 38 wherein the particulates have a bulk density less than 0.2 g/cm³.
- 49. (Original) A pharmaceutical formulation according to claim 38 wherein the particulates are in dry powder form for aerosolization in a dry powder inhaler.
- 50. (Original) A pharmaceutical formulation according to claim 38 wherein the particulates are suspended in a propellant for aerosolization in a metered dose inhaler.
- 51. (Original) A pharmaceutical formulation according to claim 38 wherein the particulates are suspended within a liquid for aerosolization in a nebulizer.
- 52. (Original) A pharmaceutical formulation according to claim 38 wherein the particulates further comprise a polyvalent cation.
- 53. (Previously Presented) A pharmaceutical formulation according to claim 38 wherein the particulates are formed by spray drying with a blowing agent.
- (Currently Amended) A pharmaceutical formulation for pulmonary administration. the pharmaceutical formulation comprising:

particulates comprising consisting essentially of amphotericin B particle particles in a matrix comprising a phospholipid wherein the amphotericin B particles have a solubility in water of less than about 0.1 to about 1.0 mg/ml, and are dispersed throughout within the phospholipid matrix, and;

wherein the particulates are hellew and/or porous and have a mass median diameter less than 20 µm, a bulk density of less than about 0.5 g/cm³ and a mass median aerodynamic diameter less than about 2.6 µm.

- 55. (Original) A pharmaceutical formulation according to claim 54 wherein the particulates have a mass median diameter less than 10 µm.
- 56. (Original) A pharmaceutical formulation according to claim 54 wherein the particulates have a mass median diameter less than 5 µm.
- 57. (Cancelled) A pharmaceutical formulation according to claim 54 wherein at least some of the particulates comprise a plurality of amphotericin B particles in a lipid matrix.
- 58. (Original) A pharmaceutical formulation according to claim 54 wherein the amphotericin B particles are crystalline.
- 59. (Cancelled)
- 60. (Previously Presented) A pharmaceutical formulation according to claim 54 wherein the lipid matrix comprises one or more of dipalmitoylphosphatidylcholine, distearoylphosphatidylcholine, diarachidoylphosphatidylcholine dibehenoylphosphatidylcholine, diphosphatidyl glycerol, short-chain phosphatidylcholines, long-chain saturated phosphatidylethanolamines, long-chain saturated phosphatidylserines, long-chain saturated phosphatidylglycerols, and long-chain saturated phosphatidylinositols.
- 61. (Cancelled)
- 62. (Original) A pharmaceutical formulation according to claim 54 wherein the particulates have a bulk density less than 0.3 g/cm³.
- 63. (Original) A pharmaceutical formulation according to claim 54 wherein the particulates have a bulk density less than 0.2 g/cm³.

- 64. (Original) A pharmaceutical formulation according to claim 54 wherein the particulates are in dry powder form for aerosolization in a dry powder inhaler.
- 65. (Original) A pharmaceutical formulation according to claim 54 wherein the particulates are suspended in a propellant for aerosolization in a metered dose inhaler.
- 66. (Original) A pharmaceutical formulation according to claim 54 wherein the particulates are suspended within a liquid for aerosolization in a nebulizer.
- 67. (Original) A pharmaceutical formulation according to claim 54 wherein the particulates further comprise a polyvalent cation.
- 68. (Previously Presented) A pharmaceutical formulation according to claim 54 wherein the particulates are formed by spray drying with a blowing agent.
- 69 83. (Cancelled).
- 84. (Withdrawn) A method of making a pharmaceutical formulation for pulmonary administration, the method comprising: suspending amphotericin B particles and a hydrophobic material in a liquid feedstock, wherein at least 90% of the active agent particles have a geometric diameter less than 3 µm; and spray drying the feedstock suspension to produce particulates comprising amphotericin B at least partially in the hydrophobic material.
- 85. (Withdrawn) A method according to claim 84 further comprising collecting the particulates, wherein the collected particulates have a mass median diameter less than 20 µm.
- 86. (Withdrawn) A method according to claim 84 further comprising collecting the particulates, wherein the collected particulates have a mass median diameter less than 10 µm.

- 87. (Withdrawn) A method according to claim 84 wherein the hydrophobic material comprises a lipid.
- 88. (Withdrawn) A method according to claim 84 wherein the hydrophobic material comprises a phospholipid.
- 89. (Withdrawn) A method according to claim 84 wherein the hydrophobic material comprises a hydrophobic amino acid.
- 90. (Withdrawn) A method according to claim 84 further comprising adding an emulsifying agent to the feedstock.
- 91. (Withdrawn) A method according to claim 84 further comprising adding a blowing agent to the feedstock.
- 92. (Withdrawn) A method according to claim 84 further comprising adding a polyvalent cation to the feedstock.
- 93. (Withdrawn) A method according to claim 84 wherein the feedstock is spray dried in a manner to produce particulates having a bulk density of less than 0.5 g/cm³.
- 94. (Withdrawn) A pharmaceutical formulation prepared by a method according to claim 84.
- 95. (Withdrawn) A method of making a pharmaceutical formulation for pulmonary administration, the method comprising: suspending amphotericin B particles in a liquid feedstock, the liquid feedstock having a lipid and a blowing agent dissolved or suspended therein; and spray drying the feedstock suspension to produce hollow and/or porous particulates comprising amphotericin B and the lipid.

96. (Withdrawn) A method according to claim 95 further comprising collecting the particulates, wherein the collected particulates have a mass median diameter less than 20 µm.

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- 97. (Withdrawn) A method according to claim 95 further comprising collecting the particulates, wherein the collected particulates have a mass median diameter less than 10 µm.
- 98. (Withdrawn) A method according to claim 95 wherein the lipid comprises a phospholipid.
- 99. (Withdrawn) A method according to claim 95 further comprising adding an emulsifying agent to the feedstock.
- 100. (Withdrawn) A method according to claim 95 further comprising adding a polyvalent cation to the feedstock.
- 101. (Withdrawn) A method according to claim 95 wherein the feedstock is spray dried in a manner to produce particulates having a bulk density of less than 0.5 g/cm³.
- 102. (Withdrawn) A pharmaceutical formulation prepared by a method according to claim 95.
- 103. (Currently Amended) A pharmaceutical formulation according to claim [[1]] 38 wherein the active agent comprises ciprofloxacin.
- 104. (New) A particulate pharmaceutical formulation in dry powder form for aerosolization and pulmonary administration, which comprises

an active agent particle having a geometric diameter of less than about 3 µm and at least one property of a solubility in water of about 0.1 to about 1.0 mg/ml, or a low glass transition temperature;

a porous phospholipid material matrix of surrounding the active agent particle wherein the active agent particle is substantially within the phospholipid matrix; and wherein the particulate pharmaceutical formulation is formed by preparing a feedstock comprising a suspension of the active agent particles and the phospholipid material, and spray-drying the feedstock to produce porous particulates having a mass median diameter less than 20 μ m, a bulk density of less than about 0.5 g/cm³ and a mass median aerodynamic diameter less than about 2.6 μ m.

105. (New) The pharmaceutical formulation according to claim 104 wherein the particulates have a bulk density less than 0.3 g/cm³.

106. (New) The pharmaceutical formulation according to claim 104 wherein the low glass transition temperature comprises about 283°C.